COAST GUARD
MARINE SAFETY OFFICE
JACKSONVILLE

Small Passenger Vessel Compliance Checklist

Rev. 7/02

This Checklist is a compilation of checklists currently in use at marine safety offices around the nation and is a work in progress. In its present state, it concentrates on items generally reviewed and approved during the plan review process conducted at the Marine Safety Center in Washington, D.C., or locally at the marine safety office. Although it should not be considered "all inclusive," it does provide a significant listing of the regulations small passenger vessels must be in compliance with.

Plans Key: MS - Mid-ship Section, OP - Outboard Profile, IP - Inboard Profile, D - Deck Arrangement, ENG - Machinery Installation, EL - Electrical Installation, FT - Full Tanks, P - Piping, HSP - Hull and Shell Penetrations

Init.	Date	Plan	Cite	Description
				General
			175.110	Vessel determined eligible for certification and subject to Subchapter T or K regulations (See PlanRev Admin & Mgt Guide and Table 175.110(d).
			175.122	Vessel ≥ 79' w/keel laid on/after 21JUL68, engaged in int'l voyage, are subj. to L/L assignment, certification and marking under Subch. E (See 46 CFR Subch. E and NVIC 1-88)
		D	176.133	Approx. number of passengers permitted. Length of Rail: _____ Deck Area: _____ Fixed Seating: _____

Init.	Date	Plan	Cite	Description
				Construction and Arrangement
			177.202	Appropriate plans submitted.
		MS, IP	177.300	Construction meets recognized standards.
		MS, IP	177.315	Vessels ≤ 65' and carrying NMT 12 passengers can have scantlings approved by OCMI.
		IP	177.405(c)	Vapor boundary between machinery/fuel space and accommodations.
		IP	177.405(g)	Mattresses meet 16CFR or IMO A.688(17)
		ENG, D	177.405(b)	Internal combustion engine exhausts, boiler and galley uptakes, and similar sources of ignition shall be kept clear of and suitably insulated from any woodwork or other combustible matter.
		D	177.405(d)	Paint and flammable liquid lockers and similar compartments constructed of steel or equivalent material.
		MS, IP	177.405(b)	FRP construction with fire retardant resins and meets ASTM E-84 flame spread rating of not more than 100. See 410(c) for use of general purpose resin & operating restrictions/requirements.
		D	177.500	Two routes of escape from all general areas accessible to passengers, crew quarters, or regularly manned spaces. At least one route is independent of watertight doors.
		D	177.500(h) & (i)	Doors, hatches or scuttles used as means of escape must be capable of being opened by one person from either side and in both light and dark conditions. Door must open towards the direction of the escape.
		D	177.600	All enclosed spaces within the vessel properly vented or ventilated. Power ventilation capable of being secured from pilot house.
		D	177.700	Crew accommodation adequate when crew members are living on board vessel.
		D	177.710	Overnight accommodations must be provided for all crew members if the vessel is operated for more than 12 hrs in a 24 hr period.
		D	177.800	Passenger accommodations sat.
		D	177.810	Overnight accommodations sat.

Init.	Date	Plan	Cite	Description
				Construction and Arrangement - continued
_____	_____	D	177.820	Seating accommodations in passenger accommodations adequate.
_____	_____	OP	177.900	Deck rail height/spacing acceptable. Height of rails required _____.
_____	_____	D	177.1010	Window construction and visibility sat.
_____	_____		178.310	Stability test: ☐ Simplified Date _____ ☐ Inclining Date _____ ☐ Deadweight Survey Only (Catamarans) Date _____
_____	_____	OP	178.410-440	Vessel Hull Type ☐ Flush Deck ☐ Cockpit ☐ Well Deck ☐ Open Boat ☐ Drainage Required
_____	_____	OP, IP	178.510	Ballast stowed properly.
_____	_____	OP, IP	179.210	Collision bulkhead required? ☐ > 65' ☐ > 49 Passengers on Exposed Route ☐ > 40' on Partially Protected Route ☐ Wood Vessel in Cold Water
_____	_____	OP, IP	179.212	Watertight bulkheads for subdivision.
_____	_____	OP, IP	179.220	Watertight bulkheads location acceptable.
_____	_____	OP, IP	179.240	Foam flotation only on vsls <65' Collision bulkhead sat.
_____	_____	OP, IP	179.310	Collision bulkhead sat.
_____	_____	OP, IP	179.320	Watertight bulkhead construction adequate. Watertight bulkheads must be installed in one plane without steps, recesses, or penetrations.
_____	_____	OP, IP, P	179.330	Watertight doors sat.
_____	_____	OP	179.350	Openings inside the vessel below the bulkhead or weather deck sat. Through-hull penetrations not more than 6 inches above the load waterline (LWL) provided with positive action valve or cock as close as possible to the hull.
_____	_____	OP, D	179.360	Hatches acceptable. Deckhouse and companionway openings. Coaming height required: ☐ Yes / ☐ No Coaming height provided: _____

Init.	Date	Plan	Cite	Description
				Lifesaving
		D	180.64	EPIRB - any route beyond 3 miles
		D	180.70-210	Required primary lifesaving equipment

Init.	Date	Plan	Cite	Description
				Firefighting Requirements
		ENG, P	181.300	Power driven fire pump adequate. Not required on vessels <65' carrying 49 passengers or less.
		P	181. 310 & 320	Fire hydrants, piping, hoses and nozzles sat.
		D, ENG, P	181.400	Required fixed fire extinguishing system. Machinery / Fuel Oil Tank Spaces _____ Paint / Oil / Hazardous Spaces _____ Cargo Space _____
		D, ENG, P	181.400(b)	Type fixed fire extinguishing system: CO2 _____ Other _____ (See NVIC 6-72)
			181.400(c)	Fire detection system sat.
		D, ENG, P	181.520	Cylinder and controls adequate and in appropriate locations.
		D, ENG, P	181.410(c)	Cylinders mounted appropriately.
		D, ENG, P	181.410(f)(I) & (ii)	Amount of C02 required.
		D, ENG, P	181.410(f)	Controls for fixed fire extinguishing system adequate.
		D, ENG, P	181.410(f)(iii)	Piping for fixed fire extinguishing system adequate.
		D, ENG, P	181.410(f)(v) & (vi)	Discharge outlets of approved type and of sufficient total area. Required Area: _____ Provided: _____
		D, ENG, P	181.500	Portable extinguishers provided IAW table 181.500(a).

Init.	Date	Plan	Cite	Description
				Machinery Requirements
		ENG	182.200	Main propulsion machinery suitable for vessel, service and route.
		ENG	182.200(b)	Machinery and boilers for steam, outboard motors, air screws, hydraulic jets and electrically propelled vessels meet. requirements of Subchapter F (Marine Engineering) and Subchapter J (Electrical Engineering).
		ENG	182.310(a)	Aux. machinery of the internal combustion type sat.
		ENG	182.310(b)	Auxiliary machinery of steam and gas turbine type meet requirements of Subchapter F.
		ENG	182.320(a)	Electric water heater criteria satisfactory
		ENG	182.320	Water heater must rated more than 100 psig or 250º F and meet Parts 52/63.
		D, ENG	182.330	Unfired pressure vessels meet requirements of Subchapter F. Volume _____ MAWP _____ Relief Valve Setting _____ *>5cu ft (See MVI 28-90)*: ☐ Ship Inspection ☐ Review of Data Sheets ☐ CG Stamp *<5cu ft*: ☐ ASME "U" or "UM" ☐ Relief Valve ASME "UV"
		ENG	182.200(b)	Two means of engine shutdowns provided.
		ENG	182.410(a)	Spark producing devices mounted high above bilges as possible.
		ENG	182.410(b)	Required gauges mounted in a location so as to be in view of the operator.
		ENG	182.422	Keel and grid cooler designed with shutoff to prevent flooding.
		ENG	182.425	Engine exhaust cooling - type:_____
		ENG	182.430	Engine exhaust pipe properly installed.
		FT	182.435 & 440	Fuel Tank: ☐ Integral *or* ☐ Independent Capacity: _____ Material _____ Req 'd Thickness: _____
		FT	182.440(a)	Baffle openings and location sat.
		FT	182.440(b)	Fuel tank location, supports and ground sat.
		FT	182.440(c)	Fuel tank tests required prior to and after installation.
		FT, P	182.445	Fuel fill and sounding pipes sat.
		FT, P	182.450	Fuel vent pipes connected to thee highest point of the tank and of adequate size.
		FT, P	182.455	Fuel piping material: _____ Connections and strainer sat.
		ENG, FT	182.455	Fuel supply piping suitably installed.

Init.	Date	Plan	Cite	Description
				Machinery Requirements - continued
		ENG, FT, P	182.455(b)	Fuel supply piping provided with proper shut-off valves.
		ENG, IP	182.460	Ventilation for gasoline machinery and spaces with gasoline fuel tanks sat. ☐ 2 Natural vents (Supply) ☐ 2 Mechanical vents (Exhaust)
		ENG, FT	182.460(e)	Exhaust blower switch interlock to ignition with red warning sign. (gasoline only).
		ENG, IP	182.4650	Ventilation for diesel machinery and spaces with diesel fuel tanks sat. ☐ 1 Supply ☐ 1 Exhaust

Init.	Date	Plan	Cite	Description
				Bilge and Ballast Requriements
		P	182.500	Must have means of draining any watertight compartment.
		P	182.510	Vessels 26 feet or longer provided with individual bilge lines and bilge suctions for each watertight compartment.
		P	182.510(b)	Bilge piping system adequate: Size of Bilge Pipe: _____ Material: _____ Size of Strainer Opening: _____
		MS, IP	182.510(d)	Collision bulkhead penetration satisfactory.
		P	182.520	Bilge pumps provided IAW Table 182.520(a) are acceptable.
		P	182.520(b)(i)	Power driven fire pump can substitute as fixed power bilge pump.
		P	182.520(e)	Submersible electric pumps were permitted U.L. Listed ☐ Y / ☐ N # Installed _____ Compartments Serviced: _____ _____
		P	182.520(j)	Catamarans must have one (1) pump per hull with cross connection capability.
		P	182.530	Vsl >26' must have a visible and audible bilge high level alarms.
		P	180.540	Ballast systems meet requirements.

Init.	Date	Plan	Cite	Description
				Steering Systems
		D, ENG	182.610	Main steering gear acceptable. Manual (indicate type): _____
		ENG, E	182.610(f)	Power driven gear: ☐ Additional requirements are satisfactory.
		D, ENG	182.610(g)	> 65' - visual means to indicate operation of power units required.
		D, ENG	182.620	Auxiliary steering apparatus, when required, acceptable.

Init.	Date	Plan	Cite	Description
				Piping Systems
_____	_____	OP, IP, D	182.710	Piping for vital systems are satisfactory.
_____	_____	P	182.720(a)	Rigid Nonmetallic piping acceptable and not prohibited for system.
_____	_____	P	182.720(b)(e)	Flexible Nonmetallic piping, where permitted, meets SAE J1942/J1475.
_____	_____	P	182.720(c)	Through-hull fittings and shut-off valves metallic or equivalent, approved by the OCMI.
_____	_____	P	182.730	Nonferris Metallic Piping is satisfactory.
Init.	**Date**	**Plan**	**Cite**	**Description**
				Electrical Installation
_____	_____	EL	183.130	Alternate compliance with 183.420 and ABYC.
_____	_____	EL	183.210	Protection provided from wet or corrosive environments.
_____	_____	EL	183.220	Circuit breakers acceptable. Mfr. : _____ Model: _____ Rating: _____
_____	_____	EL	183.220	Switches/fuses/sockets adequate for load. UL approved for marine use.
_____	_____	EL	183.310	Loads must be energized from two sources.
_____	_____	EL	183.320	Generators adequate for maximum load. Manufacturer: _____ Model: _____ Rating: _____ Ambient Temp. Design: _____
_____	_____	EL	183.320(c)	Voltmeter and ammeter provided for generator rated at 50 volts or more. Frequency meter for alternating current generator.
_____	_____	EL	183.320(f)	Generators protected from overcurrent by circuit breakers, fuses or by an overcurrent relay.
_____	_____	EL	183.324	Dual voltage generator installation sat.
_____	_____	EL	183.330	Switchboards of adequate construction and properly sized.
_____	_____	EL	183.350	Battery installation and venting sat.
_____	_____	EL	183.350(c)	Storage battery lead connection sat.
_____	_____	EL	183.352	Batteries acceptable. ☐ Yes / ☐ No Type: _____ Voltage: _____ Rating: _____
_____	_____	EL	183.352	Battery charger acceptable. ☐ Yes / ☐ No Model: _____ Capacity: _____ Mfr. : _____
_____	_____	EL	183.360	Semiconductor rectifier system sat.
_____	_____	EL	183.370 & 372	General grounding requirements met.
_____	_____	EL	183. 340	Wiring sizes adequate.
_____	_____	EL	183. 340(p)	All conductors are of stranded type, 14 AWG or larger.
_____	_____	EL	183.340(p)	All conductors of sufficient size to allow for no more than-10 percent —voltage drop.

Init.	Date	Plan	Cite	Description
			Electrical Installation - continued	
		EL	183.340	Conductor insulation and sheathing acceptable.
		EL	183.380	Conductors protected by suitable overcurrent protected devices.
		EL	183.380	Conductors supplying motors protected (h) (2) by overcurrent protection devices meet 111.70-1.
		EL	183.410	Lights/receptacles/switches exposed to weather are watertight and corrosion resistant.
		EL	183.420	Navigation lights in compliance with NavRules.
		EL	183.432	Automatic emergency lighting provided.
Init.	**Date**	**Plan**	**Cite**	**Description**
			Miscellaneous Systems and Equipment	
		IP	184.200	Cooking and heating equipment suitable for marine use.
		OP	184.300	Ground tackle and mooring gear adequate.
		IP	184.402	Magnetic compass provided.
		IP	184.404	Radar for vessels with more than 49 passengers on Oceans, Coastwise, or Limited Coastwise routes.
		IP	184.410	Electronic position fixing device for vessels with Oceans route.
		IP	184.602	Internal Communication system sat.
		IP	184.610	Public address system sat.
		ENG	184.620	Propulsion engines have 2 independent means of controls for each installation.
		D, P	184.704	MSD must comply with 33CFR159.